

FCC Test Report

Report No.: AGC01110190954FE02

FCC ID : 2AOKB-A3165

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Soundcore Flare 2

BRAND NAME : Soundcore

MODEL NAME : A3165

APPLICANT : Anker Innovations Limited

DATE OF ISSUE : Nov. 04, 2019

STANDARD(S) : FCC Part 15.247

REPORT VERSION: V1.0

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	9/	Nov. 04, 2019	Valid	Initial Release

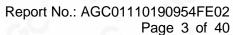




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1. VERIFICATION OF COMPLIANCE

Applicant	Anker Innovations Limited	
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon Hongkong	
Manufacturer	Anker Innovations Limited	
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong	
Factory	TCL Technoly Electronics (Huizhou) Co., Ltd. The Second Factory	
Address	Section 41, Zhongkai High-tech Development Zone, Huizhou City, Guang Dong Province, P.R. China.	
Product Designation	Soundcore Flare 2	
Brand Name	Soundcore	
Test Model	A3165	
Date of test	Oct. 08, 2019 to Nov. 04, 2019	
Deviation	None	
Condition of Test Sample Normal		
Fest Result Pass		
Report Template AGCRT-US-BLE/RF		

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

John Zeng	
John Zeng Project Engineer	Nov. 04, 2019
Max Zhang	
Max Zhang Reviewer	Nov. 04, 2019
Forrest Wi	
Forrest Lei Authorized Officer	Nov. 04, 2019
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2.GENERAL INFORMATION

2.1PRODUCT DESCRIPTION

The EUT is designed as a "Soundcore Flare 2". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz	
RF Output Power	7.934dBm(Max)	
Bluetooth Version	V5.0	
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE ⊠GFSK 1Mbps □GFSK 2Mbps	
Number of channels	40 Channel	
Antenna Designation	PCB Antenna(Comply with requirements of the FCC part 15.203)	
Antenna Gain	1.56dBi	
Hardware Version	G	
Software Version	V1.20	
Power Supply DC 7.4V by battery or DC 5V by adapter		
Note: The Type-c port only u	used for charging and can't be used to transfer data with PC.	

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
0	0	2402MHZ
ago c	. 1	2404MHZ
2400~2483.5MHZ		, (0): -0
	38	2478 MHZ
GU CC	39	2480 MHZ



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2.3 RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID:2AOKB-A3165** filing to comply with the FCC Part 15.247 requirements.

2.4TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.5 SPECIAL ACCESSORIES

Refer to section 2.2.

2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.





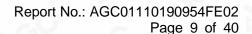
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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted, $Uc = \pm 0.8dB$
- Uncertainty of RF power density, conducted, Uc = ±2.6dB
- Uncertainty of spurious emissions, conducted, Uc = ±2.7dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %





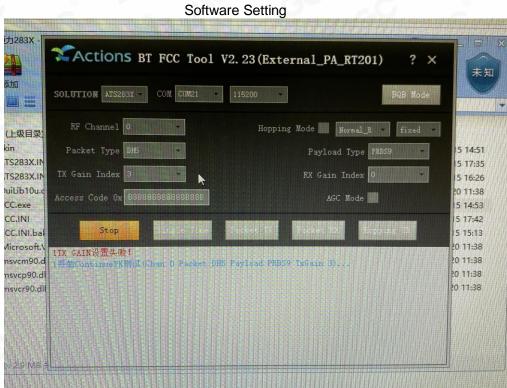


4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION		
1	Low channel TX		
2	Middle channel TX		
3	High channel TX		

Note: 1. Only the result of the worst case was recorded in the report, if no other cases.

- 2. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
- 3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.





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5. SYSTEM TEST CONFIGURATION

5.1 CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:

F	EUT	NO	AE
		8	, ,,,_

Conducted Emission Configure:

EUT	Š	AE
-----	---	----

5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Soundcore Flare 2	A3165	2AOKB-A3165	EUT
2	Adapter	DYS602-050200W	DC 5V/2A	AE
3	Control Box	N/A	USB-TTL	AE
4	Type-c Cable	N/A	0.6m unshielded	Accessory

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	Radiated Emission	Compliant
15.207	Conducted Emission	Compliant



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6. TEST FACILITY

Test Site Attestation of Global Compliance (Shenzhen) Co., Ltd					
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China				
Designation Number	CN1259				
FCC Test Firm Registration Number	975832				
A2LA Cert. No.	5054.02				
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA				

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 12, 2019	Jun. 11, 2020
LISN	R&S	ESH2-Z5	100086	Aug. 26, 2019	Aug. 25, 2020

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2019	Jun. 11, 2020
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Feb. 27, 2019	Feb. 26, 2020
Attenuator	ZHINAN	E-002	N/A	Aug. 26, 2019	Aug. 25, 2020
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2017	Sep. 20, 2020
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020
Broadband ETS LINDGREN Preamplifier		3117PA	00225134	Oct. 15, 2019	Oct. 14, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 09, 2019	Jan. 08, 2021





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7. PEAK OUTPUT POWER

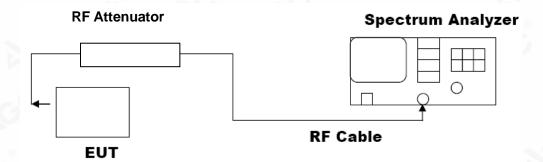
7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW ≥ DTS bandwidth
- 3. VBW≥3*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP







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7.3. LIMITS AND MEASUREMENT RESULT

PEAK OUTPUT POWER MEASUREMENT RESULT							
	FOR GFSK MOUL	DULATION					
Frequency (GHz) Peak Power (dBm) Applicable Limits (dBm) Pass or Fail							
2.402	6.139	30	Pass				
2.440	7.057	30	Pass				
2.480	7.934	30	Pass				



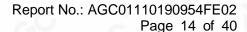




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8. 6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW ≥ 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

8.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT							
Amplicable Limite		Applicable Limits					
Applicable Limits	Test Data	Criteria					
-C -C	Low Channel	663.4	PASS				
>500KHZ	Middle Channel	661.4	PASS				
	High Channel	665.2	PASS				

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

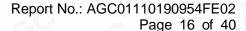




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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

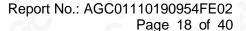
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT						
Assettant to 1 to 15	Measurement Resu	lt				
Applicable Limits	Test Data	Criteria				
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS PASS				

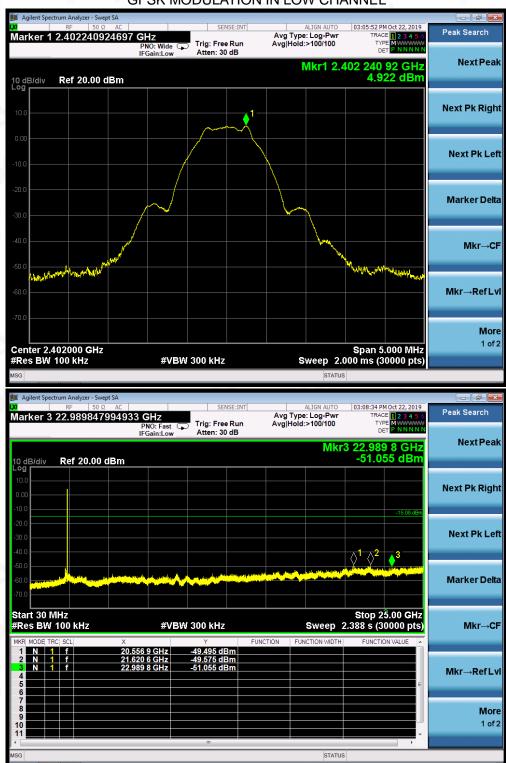






TEST RESULT FOR ENTIRE FREQUENCY RANGE

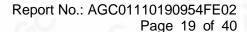
GFSK MODULATION IN LOW CHANNEL





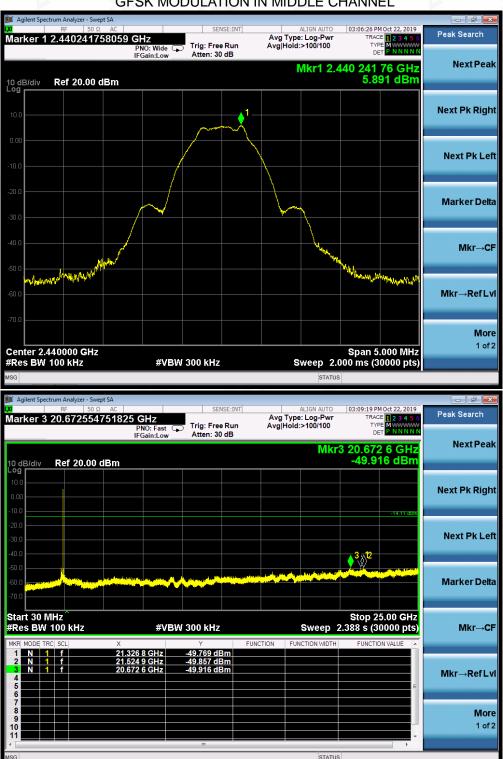
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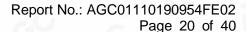


GFSK MODULATION IN MIDDLE CHANNEL



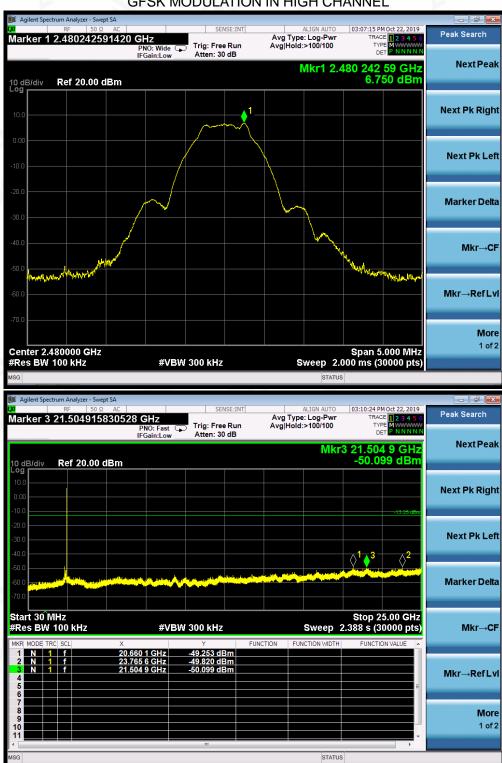


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GFSK MODULATION IN HIGH CHANNEL



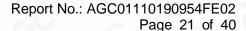
Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.



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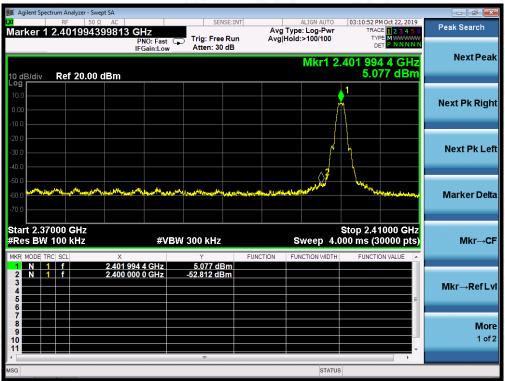
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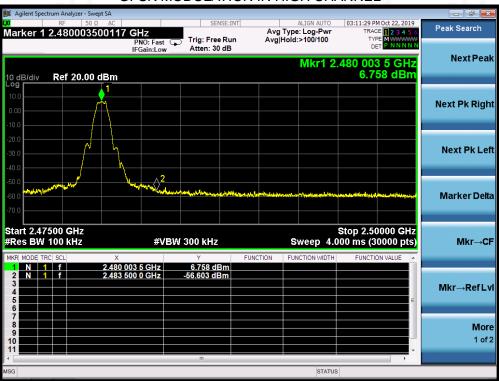


TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL



GFSK MODULATION IN HIGH CHANNEL



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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 7.2.

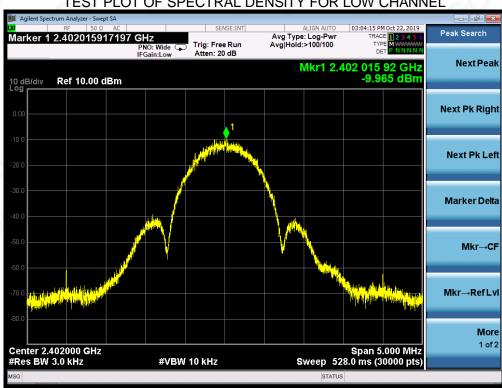
10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result	
Low Channel	-9.965	8	Pass	
Middle Channel	-8.503	8	Pass	
High Channel	-7.453	8	Pass	

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

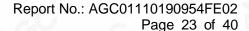




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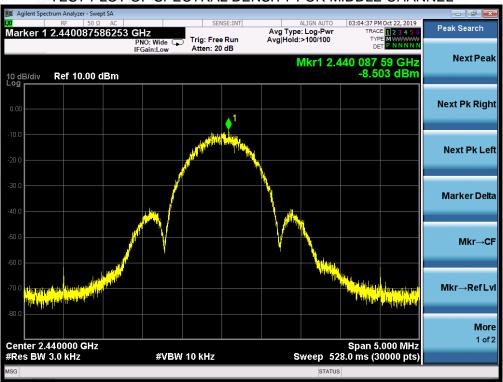
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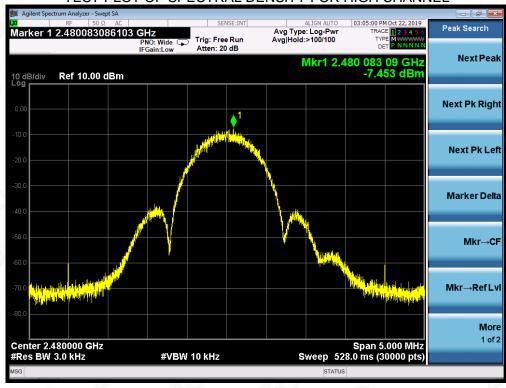




TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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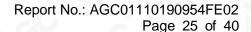
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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

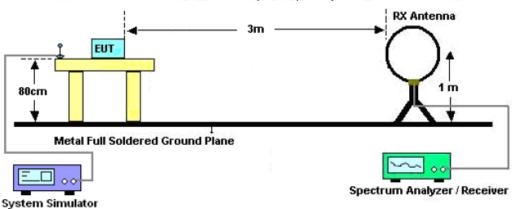




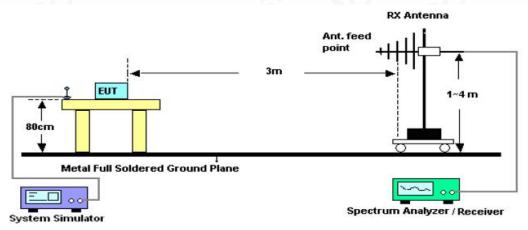


11.2. TEST SETUP

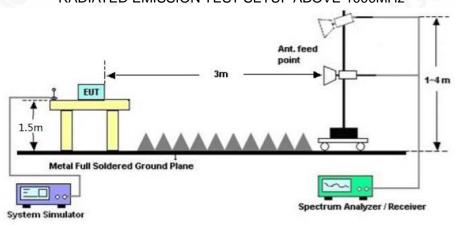
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz





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11.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested For restricted band radiated emission, the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.



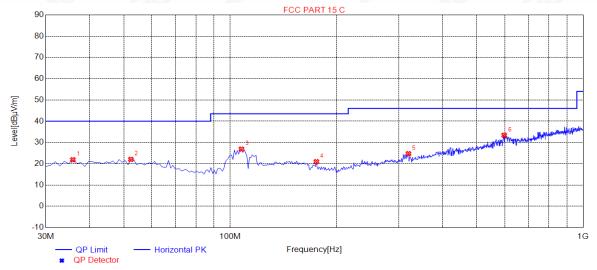
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RADIATED EMISSION BELOW 1GHZ

EUT	Soundcore Flare 2	Model Name	A3165
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal



NO.	Fre q.	Level	Factor	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dB]	[cm]	[°]	Polanty
1	35.8200	21.86	13.93	40.00	18.14	100	358	Horizontal
2	52.3100	22.04	14.49	40.00	17.96	100	305	Horizontal
3	107.6000	26.85	12.17	43.50	16.65	200	0	Horizontal
4	175.5000	20.95	13.43	43.50	22.55	200	359	Horizontal
5	320.0300	24.73	16.69	46.00	21.27	200	325	Horizontal
6	597.4500	33.40	24.28	46.00	12.60	200	283	Horizontal

RESULT: PASS



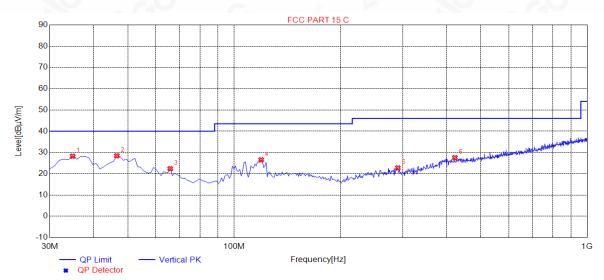
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EUT	Soundcore Flare 2 Model Nam		A3165
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical



	NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
	1	34.8500	28.24	13.70	40.00	11.76	100	333	Vertical
8	2	46.4900	28.43	14.77	40.00	11.57	100	1	Vertical
1	3	65.8900	22.37	12.93	40.00	17.63	100	101	Vertical
	4	119.2400	26.54	13.39	43.50	16.96	100	333	Vertical
	5	290.9300	22.76	16.09	46.00	23.24	100	208	Vertical
	6	421.8800	27.54	20.31	46.00	18.46	100	310	Vertical

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. All test modes had been tested. The mode 3 is the worst case and recorded in the report.



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RADIATED EMISSION ABOVE 1GHZ

EUT	Soundcore Flare 2	Model Name	A3165
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV) (dB) (dBμV/m) (dBμV/m)	(dB)	value Type			
4804.000	44.39	0.08	44.47	74	-29.53	peak
4804.000	37.43	0.08	37.51	54	-16.49	AVG
7206.000	39.09	2.21	41.3	74	-32.7	peak
7206.000	33.54	2.21	35.75	54	-18.25	AVG
_C	3				©	
	. G	©			-6	@
Remark:			8			- C
actor = Anter	nna Factor + Cabl	e Loss – Pre-	amplifier.	(0)		
				199		_

EUT	Soundcore Flare 2	Model Name	A3165
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m) (dB) Value Type		
4804.000	42.93	0.08	43.01	74	-30.99	peak
4804.000	36.78	0.08	36.86	54	-17.14	AVG
7206.000	38.68	2.21	40.89	74	-33.11	peak
7206.000	31.65	2.21	33.86	54	-20.14	AVG
- 20	-GU	-0	8		G -	-6
mark:			-0	®		





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EUT	Soundcore Flare 2	Model Name	A3165
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4880.000	43.11	0.14	43.25	74	-30.75	peak
4880.000	37.12	0.14	37.26	54	-16.74	AVG
7320.000	38.45	2.36	40.81	74	-33.19	peak
7320.000	32.57	2.36	34.93	54	-19.07	AVG
	8				0	
		®				©

EUT	Soundcore Flare 2	Model Name	A3165
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	\/alua Tima
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4880.000	42.62	0.14	42.76	74	-31.24	peak
4880.000	36.82	0.14	36.96	54	-17.04	AVG
7320.000	37.63	2.36	39.99	74	-34.01	peak
7320.000	30.71	2.36	33.07	54	-20.93	AVG
		-00				
emark:			-60		(S)	
actor = Anter	nna Factor + Cable	Loss - Pre-	amplifier.			8



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EUT	Soundcore Flare 2	Model Name	A3165
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

(MHz)						
(1411 12)	(MHz) (dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.000	42.43	0.22	42.65	74	-31.35	peak
4960.000	36.41	0.22	36.63	54	-17.37	AVG
7440.000	37.78	2.64	40.42	74	-33.58	peak
7440.000	30.54	2.64	33.18	54	-20.82	AVG
	®				@	
		0				@
emark:			©			-6

EUT	Soundcore Flare 2	Model Name	A3165
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
41.92	0.22	42.14	74	-31.86	peak
35.42	0.22	35.64	54	-18.36	AVG
36.67	2.64	39.31	74	-34.69	peak
29.46	2.64	32.1	54	-21.9	AVG
	GG				6
		- 60		(S)	
	(dBµV) 41.92 35.42 36.67	(dBμV) (dB) 41.92 0.22 35.42 0.22 36.67 2.64	(dBμV) (dB) (dBμV/m) 41.92 0.22 42.14 35.42 0.22 35.64 36.67 2.64 39.31	(dBμV) (dB) (dBμV/m) (dBμV/m) 41.92 0.22 42.14 74 35.42 0.22 35.64 54 36.67 2.64 39.31 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 41.92 0.22 42.14 74 -31.86 35.42 0.22 35.64 54 -18.36 36.67 2.64 39.31 74 -34.69

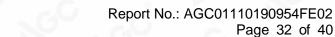
RESULT: PASS

Note: Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.



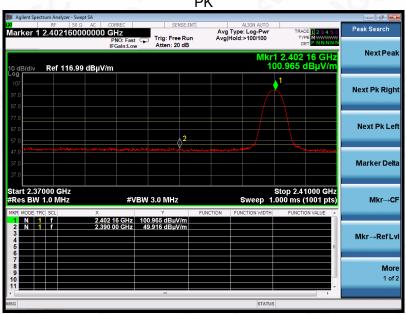


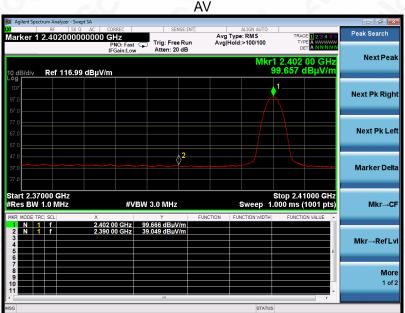


TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	Soundcore Flare 2	Model Name	A3165
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal







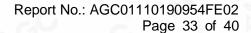
RESULT: PASS



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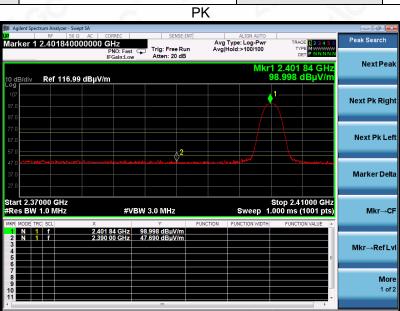
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,

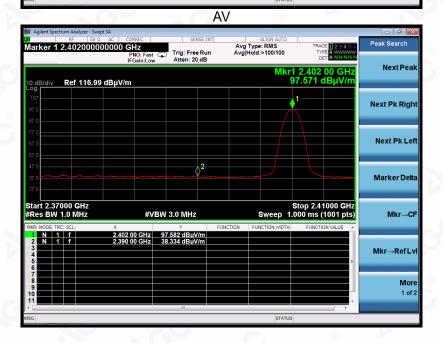
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	Coundana Flora 2	Medal Nama	A2465
EUT	Soundcore Flare 2	Model Name	A3165
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical





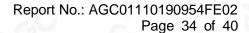
RESULT: PASS



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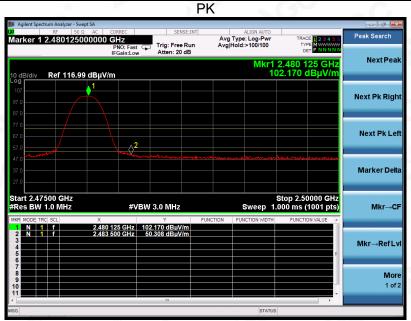
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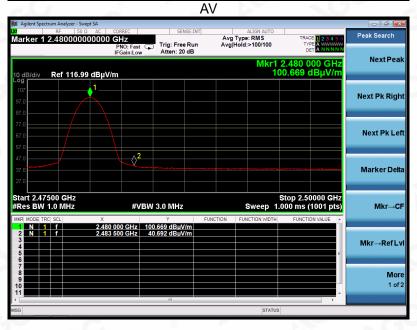
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EUT	Soundcore Flare 2	Model Name	A3165
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal





RESULT: PASS



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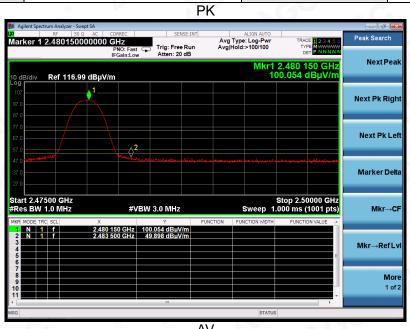
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,

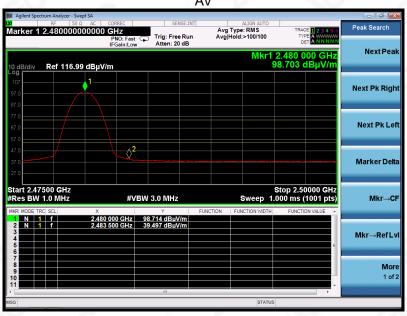
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EUT	Soundcore Flare 2	Model Name	A3165
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical





RESULT: PASS

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.



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12. FCC LINE CONDUCTED EMISSION TEST

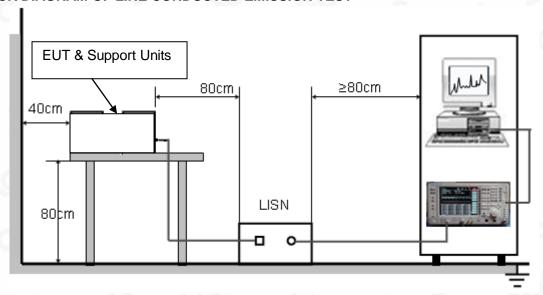
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum R	F Line Voltage
Frequency	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note: 1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST





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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by adapter which received AC120V/60Hz power by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

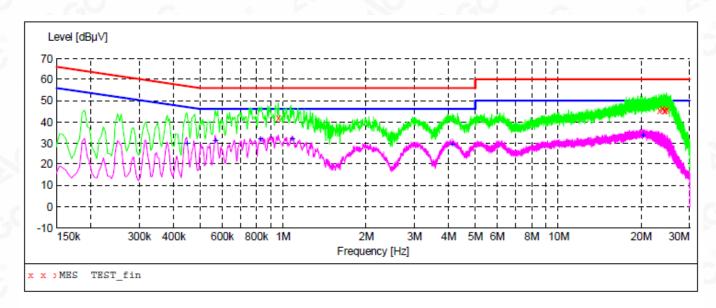




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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "TEST fin"

2019/10/14 10 Frequency MHz	:16 Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.958000 23.278000 23.810000 24.186000 24.306000 24.710000	41.80 45.20 46.20 45.40 45.50 45.90	11.1 12.9 12.9 13.0 13.0	56 60 60 60 60	14.2 14.8 13.8 14.6 14.5	QP QP QP QP QP QP	L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO

MEASUREMENT RESULT: "TEST fin2"

2019/10/14 1	0:16						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.446000	29.70	10.6	47	17.2	AV	L1	FLO
0.566000	31.00	10.7	46	15.0	AV	L1	FLO
0.826000	32.00	10.7	46	14.0	AV	L1	FLO
1.078000	32.00	11.2	46	14.0	AV	L1	FLO
4.110000	29.30	11.4	46	16.7	AV	L1	FLO
20.262000	33.70	12.7	50	16.3	AV	L1	FLO

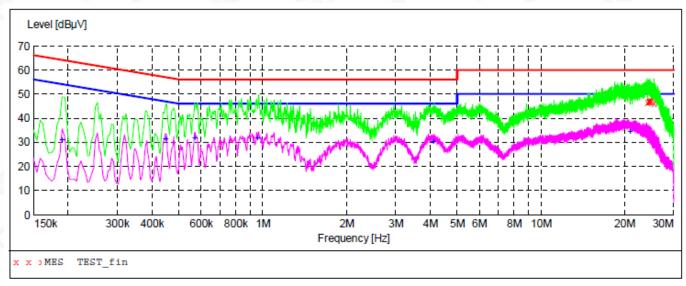


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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "TEST fin"

2019/10/14 1 Frequency MHz	.0:11 Level dBμV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
24.042000	46.70	12.9	60	13.3	QP	N	FLO
24.358000	47.00	13.0 13.0	60	13.0	QP	N	FLO
24.466000 24.638000	47.00 47.20	13.0	60 60	13.0	QP	N N	FLO FLO
				12.8	QP		
24.818000	47.00	13.0	60	13.0	QP	N	FLO
25.474000	46.30	13.0	60	13.7	QP	N	FLO

MEASUREMENT RESULT: "TEST fin2"

2019/10/14 1	0:11						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dΒμV	dB	dΒμV	dB			
0.190000	31.00	10.8	54	23.0	AV	N	FLO
0.446000	31.50	10.6	47	15.4	AV	N	FLO
0.570000	31.70	10.7	46	14.3	AV	N	FLO
0.954000	31.80	11.1	46	14.2	AV	N	FLO
4.094000	30.30	11.4	46	15.7	AV	N	FLO
20.894000	34.30	12.7	50	15.7	AV	N	FLO

RESULT: PASS

Note: All the test modes had been tested, the mode 3 was the worst case. Only the data of the worst case would be record in this test report.



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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to Attached file(appendix I)

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to Attached file(appendix I)

----END OF REPORT----



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